

FIG 1

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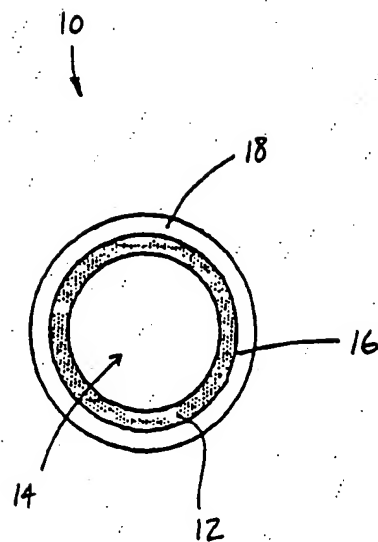


FIG 2

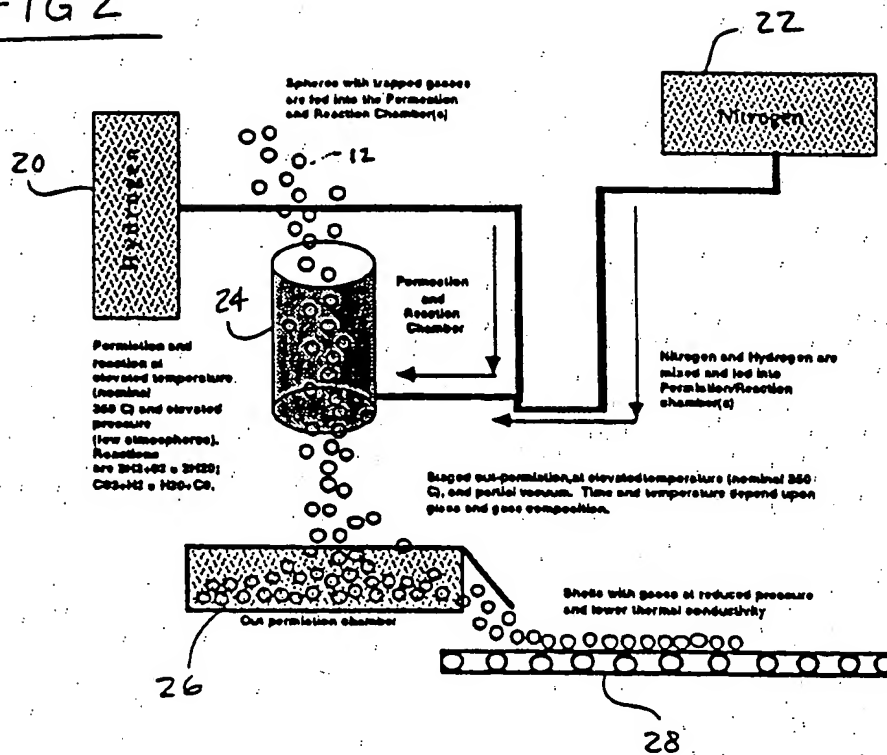


FIG 3

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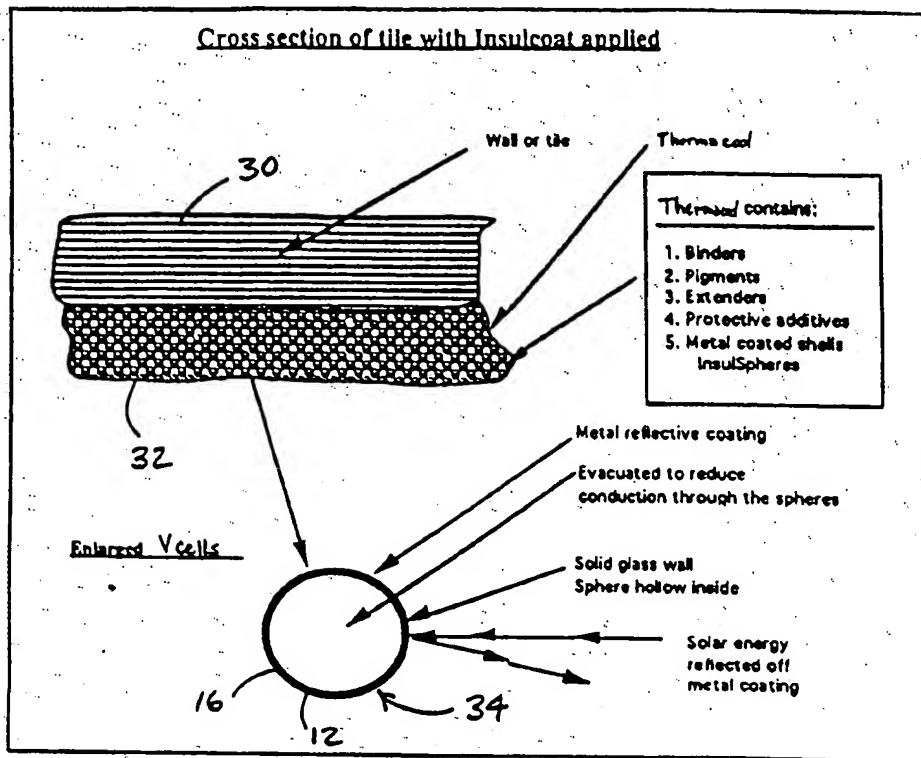
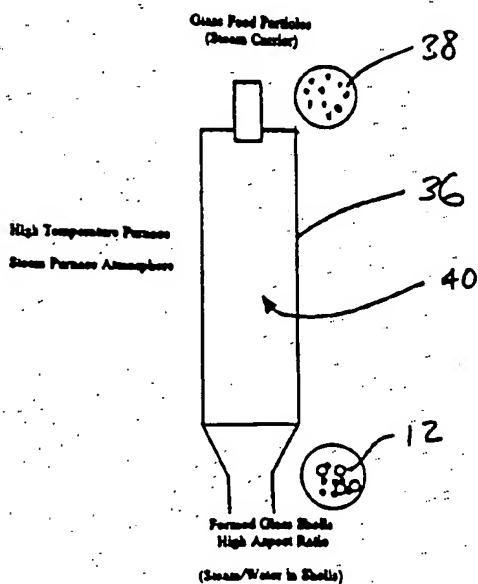


FIG 4



**INSULATION MICROSPHERES AND METHOD OF MANUFACTURE**Patent Number: ☐ WO9607538Publication  
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B01J13/04; B01J13/20; B01J13/22; C23C14/00; C23C14/58; C23C20/02; C23C20/04; C03B19/10;  
C03B19/12; C03B19/14; C03B37/00; C03C17/06; C03C17/34; C03C17/36; C03C25/02; C03C25/04EC  
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Equivalents: AU3547895, JP10508261T

Cited  
Documents: US3607169; US4303732; US4303736; US4303061; US4582756; US3769770; US4039297

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**Abstract**

Evacuated microspheres (10) and insulating materials constructed from such microspheres (32) provide insulation and reduce heat transfer through radiation, conduction and convection. Additionally, an infrared reflective coating (16) is provided on a microsphere surface to reduce radiant heat transfer. A protective exterior coating (18) is also provided to protect an exteriorly applied infrared reflective coating on such a microsphere. The evacuated microspheres are used in elastomeric roof coatings or exterior paints.

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